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In the Claims:

Claims 1-7 (canceled)

8. (currently amended) A water jet apparatus for severing a biological structure with a jet of severing liquid comprising water, the water jet apparatus comprising

a storage container for the severing liquid,

a piston-cylinder unit comprising

a generally cylindrical cylinder formed opening is formed in a cylinder casing, and the cylinder having a wall and a bottom,

a piston received in the cylinder casing cylindrical opening for reciprocal motion of the piston in the cylinder cylindrical opening with space remaining adjacent to the bottom of the cylinder cylindrical opening, the space functioning as a pressure space upon downstroke of the piston and as a suction space upon upstroke of the piston, and

opposite the bottom formed by the cylindrical opening, the cylindrical opening takes on a conical portion.

an annular membrane having an inside outer periphery attached to the conical portion of the cylinder generally cylindrical wall at a position in an upper zone of the piston-cylinder unit and wherein

an outside inner periphery attached to the piston at a position in the upper zone of the piston-cylinder unit,

the upper zone being defined by an annular space above the suction-pressured space, the membrane sealing interior of the piston-cylinder unit below the membrane from exposure to the ambient outside the piston-cylinder unit and

the membrane being dimensioned so as to allow reciprocation of the cylinder and

the annular space being dimensioned so as to allow movement of the membrane therein as the piston reciprocates and to accommodate the membrane when the piston is at rest at end of a

downstroke,

a manipulable operating device including an internal pressure tubule terminating in the jet and a suction pipe sheathing the pressure tubule,

a suction line for conducting the severing liquid from the storage container to the suction-pressure space in the cylinder,

a pressure line for conducting the severing liquid from the suction-pressure space in the cylinder to the operating device, and

a coupling for attaching the eccentric drive to and detaching the eccentric drive from the piston,

the piston-cylinder unit together with the suction line, the pressure line and the operating device constituting a sub-assembly, wherein the suction line is attachable to and detachable from the storage container and the cylinder casing by means of a first and a second coupling and the pressure line is attachable and detachable from the manipulable operating device by a third coupling.

9. (currently amended) The water jet apparatus according to claim 8, wherein at least a lowermost portion of the annular space conical portion tapers inwardly in a downward direction toward the suction-pressured space, the taper being formed by a frustconical portion of the cylinder wall.

10. (previously presented) The water jet apparatus according to claim 8, wherein the cylinder casing and the piston are constituted of plastic.

11. (previously presented) The water jet apparatus according to claim 8, further comprising a protruding sealing lip formed on the cylinder.

12. (previously presented) The water jet apparatus according to claim 8, further comprising

a connecting device installed in the cylinder for connecting the pressure tube to the suction-pressure space,

a first opening through the cylinder casing,

the connecting device comprising a pressure sleeve press fit into the first opening through the cylinder casing for effecting communication of the pressure line with the suction-pressure space, a pressure tubule concentrically received in the pressure sleeve and having external ribs spaced from an interior wall of the pressure sleeve by a distance corresponding to thickness of a wall of the pressure line, the wall of the pressure line at an end portion of the pressure line being gripped between the ribs of the pressure tubule and the interior wall of the sleeve.

13. (previously presented) The water jet apparatus according to claim 12, further comprising

a second opening through the cylinder casing, the second opening effecting communication of the suction line with the suction-pressured space, the first and second opening being radially oriented and diametrically opposed with respect to the cylinder whereby the connecting device is installable in the first opening by initial insertion thereof through the second opening.

14 (previously presented) The water jet apparatus according to claim 8, wherein the suction pipe of the manipulable operating device is connected via an exhaust line to a pump.